

What is claimed is:

1 1. An apparatus for automatically associating contextual input data with available
2 multimedia resources, comprising:

3 a contextual input device for capturing the contextual input data;

4 a personal assistant device for processing the contextual input data captured by
5 the contextual input device, and for formulating a query based on processed
6 contextual input data; and

7 a contextual multimedia association module for associating the processed
8 contextual input data with the multimedia resources and for generating association
9 matches.

1 2. The system according to claim 1, wherein the personal assistant device
2 automatically formulates the query.

3 3. The system according to claim 1, wherein the personal assistant device
2 automatically formulates the query based on a contextual input from a user.

1 4. The system according to claim 1, wherein the personal assistant device
2 automatically formulates the query based on a user profile.

1 5. The system according to claim 1, wherein the contextual input device digitizes
2 the contextual input data.

1 6. The system according to claim 1, wherein the personal assistant device
2 presents the association matches to a user.

1 7. The system according to claim 6, wherein the
2 personal assistant device develops a digital profile for a user based on association
3 matches which were previously presented to the user.

1 8. The system according to claim 7, wherein the personal assistant device
2 updates the user digital profile based on recent association matches.

1 9. The system according to claim 1, wherein the contextual multimedia
2 association applies the query to a data store on a network.

1 10. The system according to claim 1, wherein the network includes the World
2 Wide Web.

1 11. The system according to claim 1, wherein the contextual input data are based
2 on image signals; and
3 wherein the personal assistant device enhances the quality of the image signals.

1 12. The system according to claim 1, wherein the contextual input data are based
2 on audio signals; and

3 ~~3~~ ^{C1} wherein the personal assistant device enhances the quality of the audio signals.

1 13. A method for automatically associating contextual input data with available
2 multimedia resources, comprising:
3 capturing the contextual input data;
4 processing the contextual input data and formulating a query based on processed
5 contextual input data; and
6 associating the processed contextual input data with the multimedia resources
7 and generating association matches.

1 14. The method according to claim 13, wherein formulating the query includes
2 automatically formulating the query based on a contextual input from a user.

1 15. The method according to claim 13, wherein formulating the query includes
2 automatically formulating the query based on a user profile.

1 ^{C1} 16. The method according to claim 13, further including presenting the
2 association matches to a user.

1 ^{C1} 17. The method according to claim 16, developing a digital profile for a user
2 based on association matches which were previously presented to the user.

1 18. The method according to claim 17, wherein developing the digital profile
2 includes updating the user digital profile based on recent association matches.

1 19. The method according to claim 13, wherein associating the processed
2 contextual input data includes applying the query to a data store on a network.

1 20. The method according to claim 13, wherein the contextual input data are
2 based on any one or more of image signals or audio signals; and
3 wherein processing the contextual input data includes enhancing the quality of the
4 any one or more of image signals or audio signals.

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